



SCAR XXVII, July 2002, Shanghai, P.R. China.

URUGUAYAN ANTARCTIC INSTITUTE

GLACIOLOGICAL ACTIVITIES 00-02

NATIONAL REPORT

LLUBERAS, Albert A.,
Uruguayan Antarctic Institute,
alexllub@adinet.com.uy

Performed activities:

The Uruguayan Antarctic Institute has been developing glaciological research since previous SCAR meeting, in King George Island on Collins Ice Cap.

These tasks were carried out using the support of our permanent station in KGI and own logistics.

Cooperation with KORDI (Korea Ocean Research & Development Institute) was agreed in order to sample snow and ice and environmental monitoring, participating scientists from both sides . Our logistics was supplied for the operations involved in the mentioned locations according to SCAR objectives.

The aims of the research projects performed and results obtained were as follows:

- **Glaciochemistry** : Measurement of surface snow chemistry for the near future investigation of temporal and spatial changes in atmospheric composition, using the snow and firn on Collins Cap. This work was performed under the cooperative research program between UAI and KORDI who will performed the chemical analysis on its own clean laboratories.
- **Site Clean Up**: Retrieval of remains from previous go's multinational expeditions ,parties and activities using own logistics according to CEP was accomplished. About two tons. of several kinds of disposed materials were airborne lifted to Artigas , digging with help of Chinese crew from Great wall Station
- **Internal ablation and drainage** : Measurement of the drainage and water flow from Collins Ice Cap for comparison with internal ablation and previous studies was carried out. For direct measurements a logger was installed in order to continuous register the glacier water discharge in a Experimental Basin, pretending to use this Ice Cap as a natural sensor of global heat in Antarctic.

Planned activities:

Going on with monitoring planned activities supporting the environmental program ,sampling of Antarctic surface snow samples from Collins Ice Cap will be analyzed for Pb, Cd, Cu, Zn and Mn determinations both by direct injections into the graphite furnace and by GFAAS after non-boiling evaporation with the thankful cooperation of KORDI. Also, the mentioned above logger will be leave for one more year in order to collect another series of drainage data.